



YUANHE

Miniature deep groove ball bearings

Yuanhe Transmission (Zhenjiang) Co., Ltd.



1、 Structure type

Miniature ball bearings are suitable for various applications requiring high speed, low friction torque, low vibration and low noise. This type of bearing mainly bears radial loads, and can also bear smaller axial loads. The difference between miniature and small ball bearings is shown in Table 1.

	Table 1 Dimensions of bearings	Unit:mm
Distinguish	Small ball bearings	Miniature Ball Bearings
Metric series	outer diameter D>9	Outer diameter D<9
	Inner diameter W10	

2、 Clearance

The clearance values of miniature and small ball bearings are shown in Table 3

Table 3 Radial clearance of miniature and small ball bearings							Unit: mm	
Clearance code	C1		C2		C3		C4	
	Min	Max	Min	Max	Min	Max	Min	Max
clearance	0	5	3	8	5	10	8	13

Note: If you have any questions, you can contact us.

Table 4 Radial clearance correction amount

Clearance code	C1	C2	C3	C4
Backlash Correction	1	1	1	1

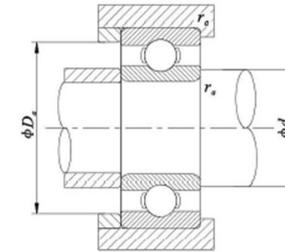
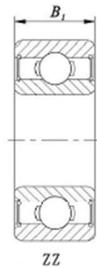
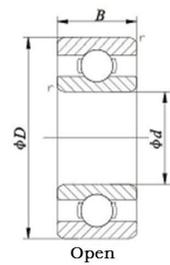
The test loads are as follows:

Miniature ball bearing 2.5N (0. 25kgf)

Small ball bearing 4. 4N (0. 45kgf)

Note: In addition to the standard miniature ball bearings listed in the dimension table, there are also variable speed bearings for dental drills, which require can contact us.

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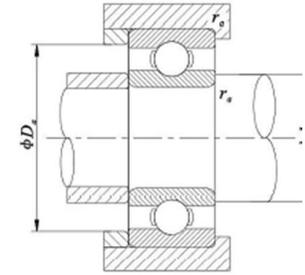
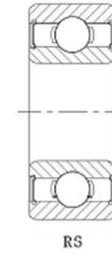
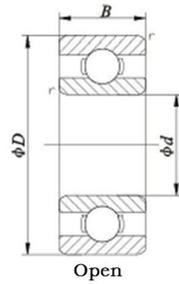


d 1.5~5mm

d	Main Dimensions (mm)				Basic Rated Load (KN)		Limit Speed (r/min)		Nominal Model	Installation related dimensions (mm)				Reference Quality (g)
	D	B	B ₁	r (Min)	C _r	C _{0r}	Grease	Oil		d ₂ Min	d ₂ Max	D ₂ Max	r ₂ Max	
1.5	4	1.2	2	0.15	0.15	0.029	88000	100000	68/1.5	2.3	2.4	3.2	0.05	0.07
	5	2	2.6	0.15	0.15	0.051	79000	93000	69/1.5A	2.7	2.9	3.8	0.05	0.18
	6	2.5	3	0.15	0.15	0.086	71000	84000	60/1.5	2.7	3	4.8	0.15	0.35
2	4	1.2	2	0.05	0.05	0.037	83000	98000	672	2.5	2.6	3.5	0.05	0.06
	5	1.5	2.3	0.08	0.08	0.051	74000	87000	682	2.8	2.9	4.2	0.08	0.13
	6	2.3	3	0.15	0.15	0.089	67000	79000	693	3.2	3.3	4.8	0.15	0.31
	7	2.8	3.5	0.15	0.15	0.125	62000	73000	602	3.2	3.7	5.8	0.15	0.54
2.5	5	1.5	2.3	0.08	0.08	0.059	70000	82000	67/2.5	3.1	3.3	4.4	0.08	0.11
	6	1.8	2.6	0.08	0.08	0.073	65000	76000	68/2.5	3.1	3.6	4.8	0.08	0.22
	7	2.5	3.5	0.15	0.15	0.096	59000	70000	69/2.5	3.7	4	5.8	0.15	0.43
	8	2.8	4	0.15	0.15	0.174	56000	66000	60/2.5	3.7	4.1	6.8	0.15	0.72
3	6	2	2.5	0.08	0.08	0.094	60000	71000	673	3.6	4.1	5.4	0.08	0.2
	7	2	3	0.1	0.1	0.13	58000	68000	683	3.9	4.1	5.8	0.1	0.33
	8	3	4	0.15	0.15	0.18	54000	63000	693	4.2	4.4	6.8	0.15	0.61
	9	3	5	0.15	0.15	0.219	50000	59000	603	4.2	5	7.8	0.15	0.92
	10	4	4	0.15	0.15	0.224	50000	58000	623	4.2	5.2	8.8	0.15	1.6
4	9	2.5	4	0.15	0.15	0.224	49000	57000	684	5	5.2	7.8	0.1	0.76
	11	4	4	0.15	0.15	0.276	45000	52000	694	5.2	6.4	9.8	0.15	2
	12	4	4	0.2	0.2	0.36	43000	51000	604	5.6	6.6	10.4	0.2	2.3
	13	5	5	0.2	0.2	0.49	42000	49000	624	5.6	6.2	11.4	0.2	3.5
	16	5	5	0.3	0.3	0.68	37000	44000	634	6	7.6	14	0.3	5.1
5	8	2	2.5	0.08	0.08	0.091	49000	57000	675	5.6	6	7.4	0.08	0.32
	11	3	5	0.15	0.15	0.282	43000	51000	685	6.2	6.8	9.8	0.15	1.1
	13	4	4	0.2	0.2	0.43	40000	47000	695	6.6	6.9	11.4	0.2	2.4
	14	5	5	0.2	0.2	0.505	39000	46000	605	6.6	7.4	12.4	0.2	3.5
	16	5	5	0.3	0.3	0.68	37000	44000	625	7	7.6	14	0.3	4.8
	19	6	6	0.3	0.3	0.885	34000	40000	635	7	9.5	17	0.3	8

Remarks: Open type is B, sealed type is B1

Miniature deep groove ball bearings



d 6~9 mm

d	Main Dimensions (mm)				Basic Rated Load (KN)		Limit Speed (r/min)		Nominal Model	Installation related dimensions (mm)				Reference Quality (g)		
	D	B	B ₁	r (Min)	C _r	C _{0r}	Grease	Oil		d _s		D _s			r _s	
	Min	Max	Max	Max	Min	Max	Max	Max		Min	Max	Max	Max			
6	13	3.5	5	0.15	1.08	0.44	39000	46000	686	7.0	7.2	11.8	0.2	1.9		
	15	5	5	0.2	1.35	0.53	37000	44000	696	7.6	7.8	13.4	0.2	3.8		
	17	6	6	0.3	2.19	0.865	35000	42000	606	8.0	8.6	15.0	0.3	6.0		
	19	6	6	0.3	2.34	0.885	34000	40000	626	8.0	9.5	17.0	0.3	8.1		
7	11	2.5	3	0.1	0.56	0.269	40000	47000	677	7.8	8.1	10.2	0.1	0.7		
	14	3.5	5	0.15	1.17	0.505	37000	44000	687	8.2	8.7	12.8	0.2	2.1		
	17	5	5	0.3	1.61	0.715	35000	41000	697	9.0	10.0	15.0	0.3	5.2		
	19	6	6	0.3	2.24	0.91	34000	40000	607	9.0	10.4	17.0	0.3	8.0		
	22	7	7	0.3	3.35	1.4	32000	37000	627	9.0	12.2	20.0	0.3	13.0		
8	16	4	5	0.2	1.61	0.715	35000	41000	688	9.6	10.0	14.4	0.2	3.1		
	19	6	6	0.3	1.99	0.865	33000	39000	698	10.0	10.6	17.0	0.3	7.3		
	22	7	7	0.3	3.35	1.4	32000	37000	608	10.0	12.2	20.0	0.3	12.0		
	24	8	8	0.3	4.00	1.59	31000	36000	628	10.0	12.1	22.0	0.3	17.0		
9	14	3	4.5	0.1	0.92	0.465	36000	42000	679	9.8	10.4	13.2	0.1	1.4		
	17	4	5	0.2	1.72	0.82	33000	39000	689	10.6	10.7	15.4	0.2	3.2		
	20	6	6	0.3	2.48	1.09	32000	38000	699	11.0	11.6	18.0	0.3	8.2		
	24	7	7	0.3	3.40	1.45	31000	36000	609	11.0	13.1	22.0	0.3	14.0		
	26	8	8	0.6	4.55	1.96	30000	35000	629	13.0	13.9	22.0	0.3	20.0		

Remarks: Open type is B, sealed type is B1

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THANK
YOU